

## Silquest™ A-174NT

### Silquest\* A-174NT

#### Description

Momentive Performance Materials Silquest A-174NT silane is a methacryloxy functional trimethoxy silane that finds utility in coating, composite and adhesive and sealant systems that cure via a free radical mechanism.

#### Key Features and Benefits

| Feature                      | Benefit   |
|------------------------------|---|
| Methacryloxy Functionality   | <ul style="list-style-type: none"> <li>• May be suitable for use in free radical cure adhesives and sealants based upon resin systems such as polyesters, polyurethanes, acrylics, and many thermoplastics such as PVC, polyolefins and polyurethanes.</li> </ul> |
| Methoxy Silane Functionality | <ul style="list-style-type: none"> <li>• Bonds to inorganic substrates to provide excellent wet and dry adhesion</li> <li>• Fast hydrolysis rate.</li> </ul>  |

May be copolymerized with vinyl acetate, vinyl chloride, acrylates, or methacrylate monomers to yield a moisture curable silylated polymer. Such polymers may be incorporated into adhesive and sealant systems to enhance adhesion to substrates such as glass, metal and some plastics. (See SPUR\* prepolymer-based technology literature for additional ideas regarding the benefits of silane crosslinked polymer chemistry).

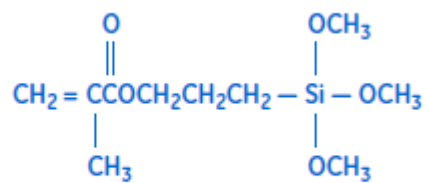
May result in the enhancement of strength performance, both initially and after wet conditioning, of glass, silica, silicate, and metal oxide filled polyester resin systems.

May improve the wet electrical performance of many mineral-filled thermoplastic materials such as crosslinked polyethylene and polyvinylchloride.

#### Typical Physical Properties

|                                      |                          |
|--------------------------------------|--------------------------|
| Appearance                           | Clear light straw liquid |
| Molecular Weight                     | 248.1                    |
| Specific Gravity at 25/25°C          | 1.045                    |
| Refractive Index $n_D$ 25°C          | 1.429                    |
| Flash Point, Tag Closed Cup, °C (°F) | 108 (226)                |
| Boiling Point, °C (°F)               | 255 (491)                |

## Chemical Structure



**Gamma-Methacryloxypropyltrimethoxy Silane**

### **Patent Status**

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

### **Product Safety, Handling and Storage**

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

### **Commercial Status**

Silquest A-174NT silane is commercially available. Contact your sales or customer service representative to enter a sample request, or place an order.

### **Limitations**

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

### **Contact Information**

Email

[commercial.services@momentive.com](mailto:commercial.services@momentive.com)

### **Telephone**

| <b>Americas</b>                | <b>Latin America</b>                               | <b>EMEAI- Europe, Middle East, Africa &amp; India</b>                        | <b>ASIA PACIFIC</b>  |
|--------------------------------|--|--|--|
| +1 800 295 2392<br>Toll free*  | <b>Brazil</b><br>+55 11 4534 9650<br>Direct Number | <b>Europe</b><br>+390510924300<br>Direct number                              | <b>China</b><br>800 820 0202<br>Toll free<br>+86 21 3860 4892<br>Direct number |
| +704 805 6946<br>Direct Number | <b>Mexico</b><br>+52 55 2169 7670<br>Direct Number | <b>India, Middle East &amp; Africa</b><br>+ 91 44 71212207<br>Direct number* | <b>Japan</b><br>+81 3 5544 3111<br>Direct number                               |
| *All American countries        |  | <b>*All Middle Eastern countries, Africa, India,</b>                         | <b>Korea</b><br>+82 2 6201 4600  |

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